

Katz Eye[™] Optics

Focusing Screen Installation Instructions

For the Nikon D100 & Fuji S2 Pro

Katz Eye™ Focusing Screen Installation Instructions

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Thank you very much for your purchase of a Katz Eye™ focusing screen. This document provides installation instructions for the Nikon D100 & Fuji S2 Pro cameras. The installation of the Katz Eye™ screen requires no modifications to the camera, and when properly performed, is completely reversible. For best results, please read completely through the instructions before beginning the procedure.

WARNING: THESE INSTRUCTION ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. KATZ EYE™ OPTICS ACCEPTS NO LIABILITY FOR DAMAGE RESULTING FROM USING THESE INSTRUCTIONS. SHOULD DAMAGE OCCUR AS A RESULT OF FOLLOWING THESE INSTRUCTIONS, THE USER WILL ASSUME THE ENTIRE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION. KATZ EYE™ OPTICS' LIABILITY IS LIMITED TO REPAIR OR REPLACEMENT OF PARTS SUPPLIED BY KATZ EYE™ OPTICS.

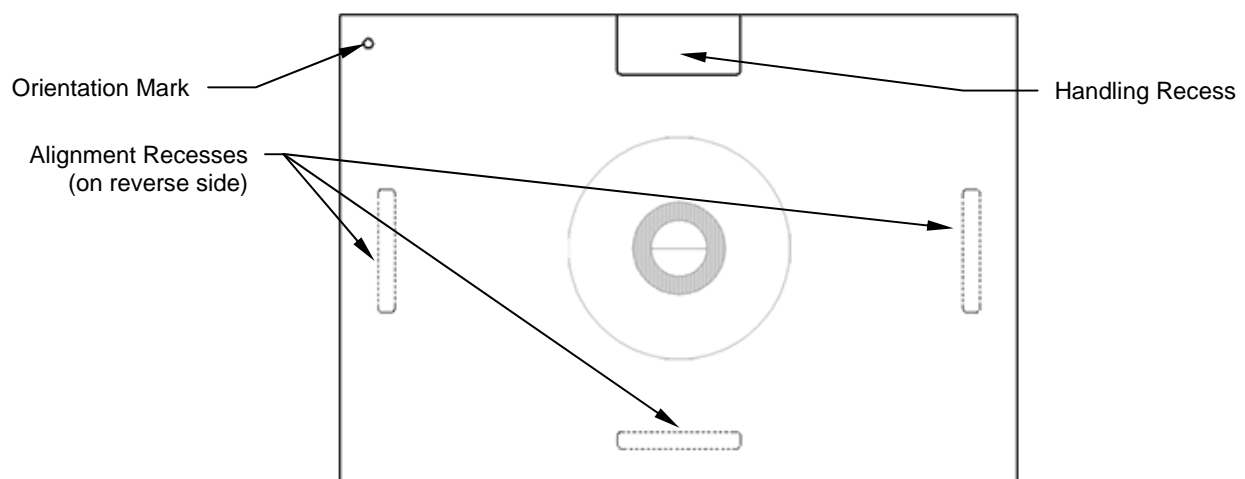
Note: Some pictures are available in larger format on the internet. Just click the links.

1. Set up a work area which is relatively free of dust and has a soft surface on which to place the camera.
2. Collect the necessary tools and supplies. You will need:
 - a. Miniature screwdrivers (small and medium).
 - b. Tweezers.
 - c. Bulb blower.
 - d. Pec-Pads or lens cloth.



Click Photo to Enlarge

3. Before proceeding, please take a moment to study this drawing of the Katz Eye™ focusing screen. Several additional features have been added to the screen to make installation and alignment of the screen easier for the installer. All of these features are outside the viewable area of the screen and will not be seen in the viewfinder. The additional features have the following functions:



- Remove the lens from the camera and place the camera flat on its back (on the LCD side).

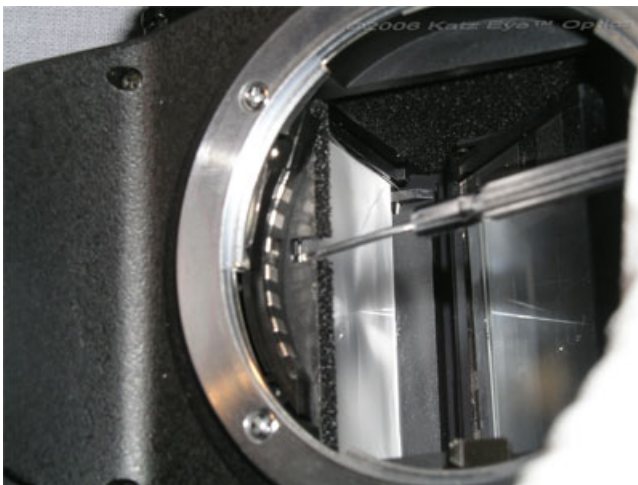


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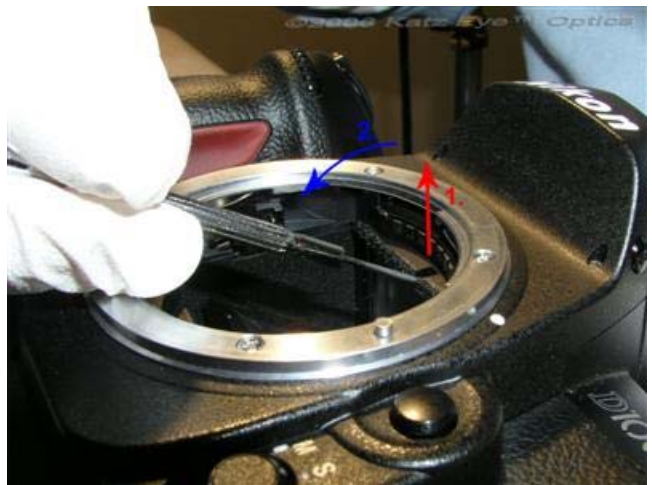
- Place a folded Pec-Pad or lens cloth against the reflex mirror for protection. The pad is not used in these illustrations for clarity of view. While this step is not absolutely necessary, it is a good general precaution.

CAUTION: The screen retention mechanism in the Nikon D100 and Fuji S2 Pro is very delicate! Excess force can easily break the small plastic catch which holds the retainer wire. Please follow the instructions carefully, study the pictures closely, use only gentle pressure, and if you are in doubt about what you are doing, stop and consider professional installation.

- Release the screen retaining wire by inserting your smallest screwdriver as shown in the left photo. Then, gently lift the wire slightly as shown by the straight red arrow in the right photo. The direction of your pressure should be parallel to the focusing screen and toward the lens mount. The wire will then pivot away from the focusing screen (it is hinged near the main mirror).

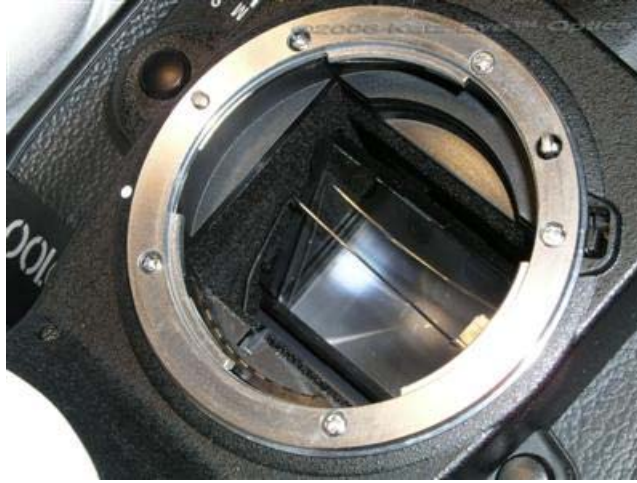


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7. Continue pivoting the retaining wire away from the screen until it is nearly against the main mirror. Tip the camera so that the focusing screen falls against the retaining wire.

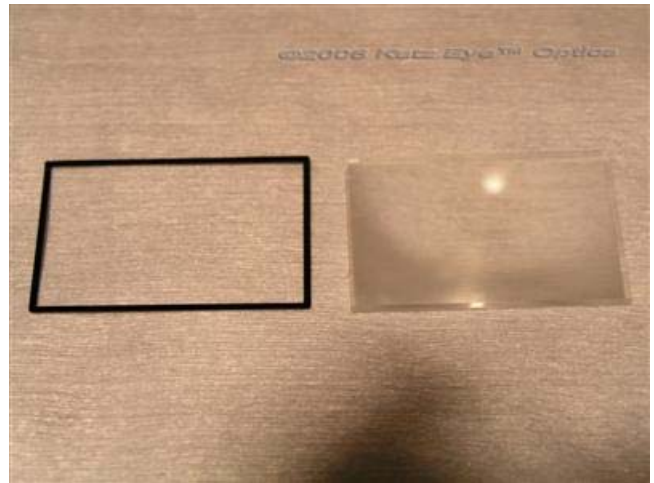


[Click Photo to Enlarge](#)

8. Grasp the original focusing screen along the top edge, in an area similar to the handling recess on the Katz Eye™ screen. Be careful not to grasp too far down on the screen, as you could make marks in the viewable area. Carefully lift out the original focusing screen and store in a safe place. The black shim should not be removed – it is shown below with the focusing screen for reference only. If the shim is accidentally removed with the focusing screen (static often holds them together), reinsert the shim before continuing.



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)

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9. Remove the bagged Katz Eye™ screen from the plastic case. Orient the screen so that the orientation dot is in the upper left corner (highlighted in red in the left photo). Grasp the Katz Eye™ focusing screen by its handling recess and withdraw from the protective bag. Insert the screen into the camera. The orientation mark on the screen should be located in the corner furthest from the main mirror and closest to the camera's name badge (indicated by the red arrow in the right photo).

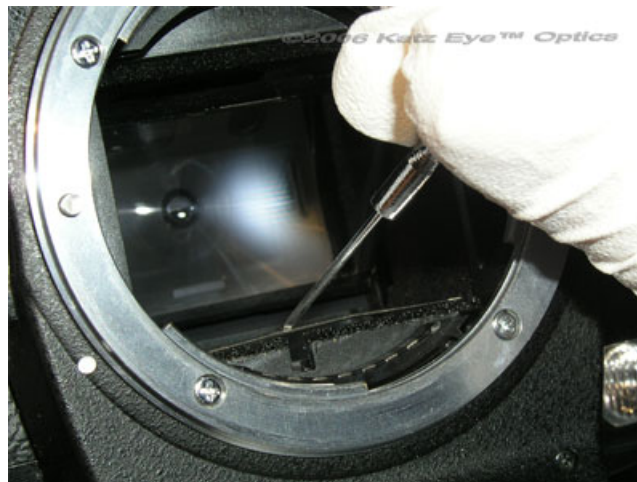


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10. Lower the retaining wire until it approaches the catch. Gently press the wire straight toward the top of the camera (perpendicular to the focusing screen) and over the catch. When the wire is home, you should feel and/or hear a slight click.



[Click Photo to Enlarge](#)

11. If necessary, blow any dust out of the mirror chamber with the bulb blower. Attach a lens, test the camera functions, and check the alignment of the focusing screen to the in-camera marks. Please note that because the focusing screen and the in-camera marks are at a different distance from the viewfinder, if your eye is off-center in the viewfinder, the marks may appear not to align even if they are positioned correctly. The alignment of the focusing screen to the in-camera marks is a purely aesthetic issue and will NOT affect the correct calibration of the manual focus. However, if the alignment is off in a bothersome way, please proceed to step 12 to align the screen. If the alignment is visually satisfactory, then the installation is complete.

Alignment (Optional) – Alignment of the focusing screen to the in-camera marks (focusing points, composition circle, etc.), while not essential for correct manual focus, can provide a pleasing visual improvement. When the Katz Eye™ screen is correctly aligned, the large circle of the Katz Eye™ will be concentric with and just slightly inside the large broken circle in the viewfinder. The split prism will bisect the central focusing point and be laterally centered on that point. It bears repeating that the apparent alignment can shift substantially based on the position of your eye in the viewfinder, so you might want to move your eye around a bit to be sure that it actually needs correction. If it is determined that altering the alignment is necessary, please proceed as follows:

12. The alignment can be adjusted by simply shifting the focusing screen in its frame. It is not necessary, nor desirable, to unlatch the screen retaining wire to perform the alignment – the screen will shift with a gentle pressure without unlatching the retaining wire. The alignment recesses on the screen provide a convenient purchase point for use with any suitable tool; a medium jeweler's screwdriver is a common choice. While the recesses will help prevent accidental slips, it is nonetheless very important to exercise caution that the tool does not slip and scratch the face of the focusing screen. Vertical adjustment is accomplished by using the alignment recess closest to the main mirror. Simply place your tool in the recess and shift the screen toward the mirror to move the split line down in the viewfinder or toward the foam strip to raise the split line up in the viewfinder. Horizontal alignment is accomplished using either of the vertical recesses along the sides of the screen. Because of the optics of the pentaprism, left/right motion of the screen is reversed; in other words, if the prism appears too far to the right, it will actually need to move to the right to correct the alignment. And if it appears too far to the left, it will need to move to the left. Once the alignment is close enough to be visually acceptable, the installation is complete.

End of Instructions

Technical support is available by email to customerservice@katzeoptics.com. We strive to return all emails within 24 hours. Phone support is available at +1.413.743.2523 between the hours of 8:00am and 6:00pm Eastern Standard Time (GMT-5:00), Monday through Saturday. If we are not available, please leave a brief message, including your name and phone number, and we will call you back as soon as possible and always within 24 hours.

If you do not wish to complete the installation yourself, Katz Eye™ Optics can provide installation services. Please visit the Katz Eye™ Optics website, www.katzeoptics.com to purchase our installation service. We would also be happy to advise your choice of local camera shop regarding the installation procedure. Thank you very much for your purchase of a Katz Eye™ focusing screen and may the world favor you with abundant photo opportunities.

Take care,



Rachael Katz – Co-Owner, Katz Eye™ Optics